



406847

# **Former Plainwell Impoundment Time-Critical Removal Action Weekly Construction Update**

**Progress Report #65—September 29, 2008**

**Work Completed: September 11-September 24, 2008**

- Continued removing floodplain soil from Removal Area 13A.
- Continued removing soil and sediment from Mid-Channel Area A and Removal Area 13B.
- Continued removing soil and sediment behind the Phase 2 Cofferdam.
- Continued restoration activities in Removal Area 11A.
- Continued site preparation activities to facilitate removal of sediment behind the Phase 2 Cofferdam.
- Continued soil/sediment solidification activities at Staging Areas 4N and 5S.
- Continued loading and transporting solidified soil/sediment material from Staging Areas 4N and 5S to Allied Waste C&C Landfill and Ottawa County Farms Landfill.
- Constructed an earthen berm between Staging Area 5S and Removal Area 13B.
- Increased the length of the Phase 2 Cofferdam overflow weir by lowering steel sheeting adjacent the existing overflow weir.
- Constructed an erosion control system comprised of gabion baskets, geotextile, rip rap and concrete at the upstream end of the earthen embankment between the WCS and the existing spillway.
- Installed temporary steel sheeting to connect the existing Phase 2 Cofferdam to the western concrete wing wall of the existing spillway.
- Began an initial site assessment of all removal areas, resuspension control systems, the Phase 2 Cofferdam and the WCS structure following the increased water elevations during flood stages.
- Continued operation of the WCS.

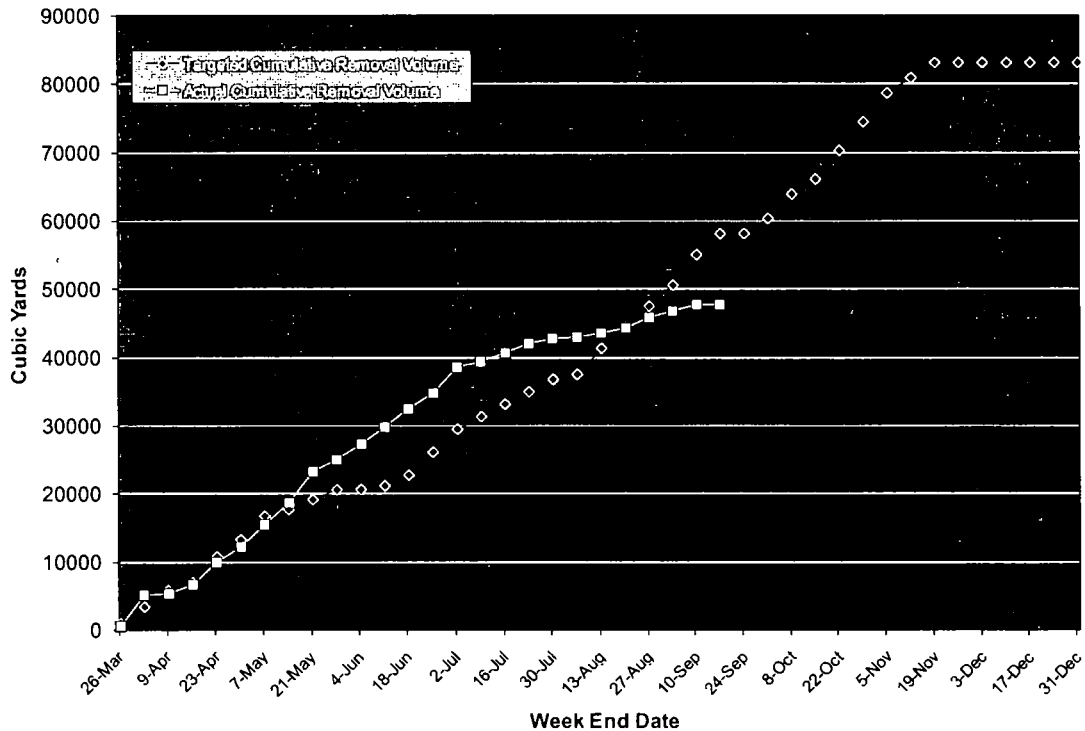
<b>Estimated Weekly Volume Hauled to TSCA and Non-TSCA Landfill Facilities</b>				
<b>Date</b>	<b>Estimated Quantity TSCA-material (cubic yards)</b>	<b>Number of Truck Loads TSCA-material</b>	<b>Estimated Quantity Non-TSCA material (cubic yards)</b>	<b>Number of Truck Loads Non-TSCA material</b>
<b>Weekly Total</b>	0	0	3,325	95
<b>2008 Total</b>	12,600	360	46,025	1,315
<b>Project Total to Date</b>	15,610	446	82,040	2,344

Note: All values are unofficial, estimated quantities, subject to revision/verification.

***Work Planned: September 25-October 1, 2008***

- Continue removing soil and sediment from Mid-Channel Area A and Removal Area 13B.
- Continue removing soil and sediment within Phase 2 Cofferdam area.
- Continue restoration activities in Removal Area 11A.
- Continue site preparation activities to facilitate removal of material behind the Phase 2 Cofferdam.
- Continue soil/sediment solidification activities at Staging Areas 4N and 5S.
- Continue loading and transporting solidified soil/sediment material from Staging Areas 4N and 5S to Allied Waste's C&C Landfill and Ottawa County Farms Landfill.
- Begin loading and transporting solidified soil/sediment TSCA material from Staging Area 5S to EQ Wayne County Disposal Facility.
- Continue to assess all removal areas, resuspension control systems, the Phase 2 Cofferdam and the WCS as river elevations continue to lower.
- Continue operation of the WCS.

## Removal Progress



### Notes:

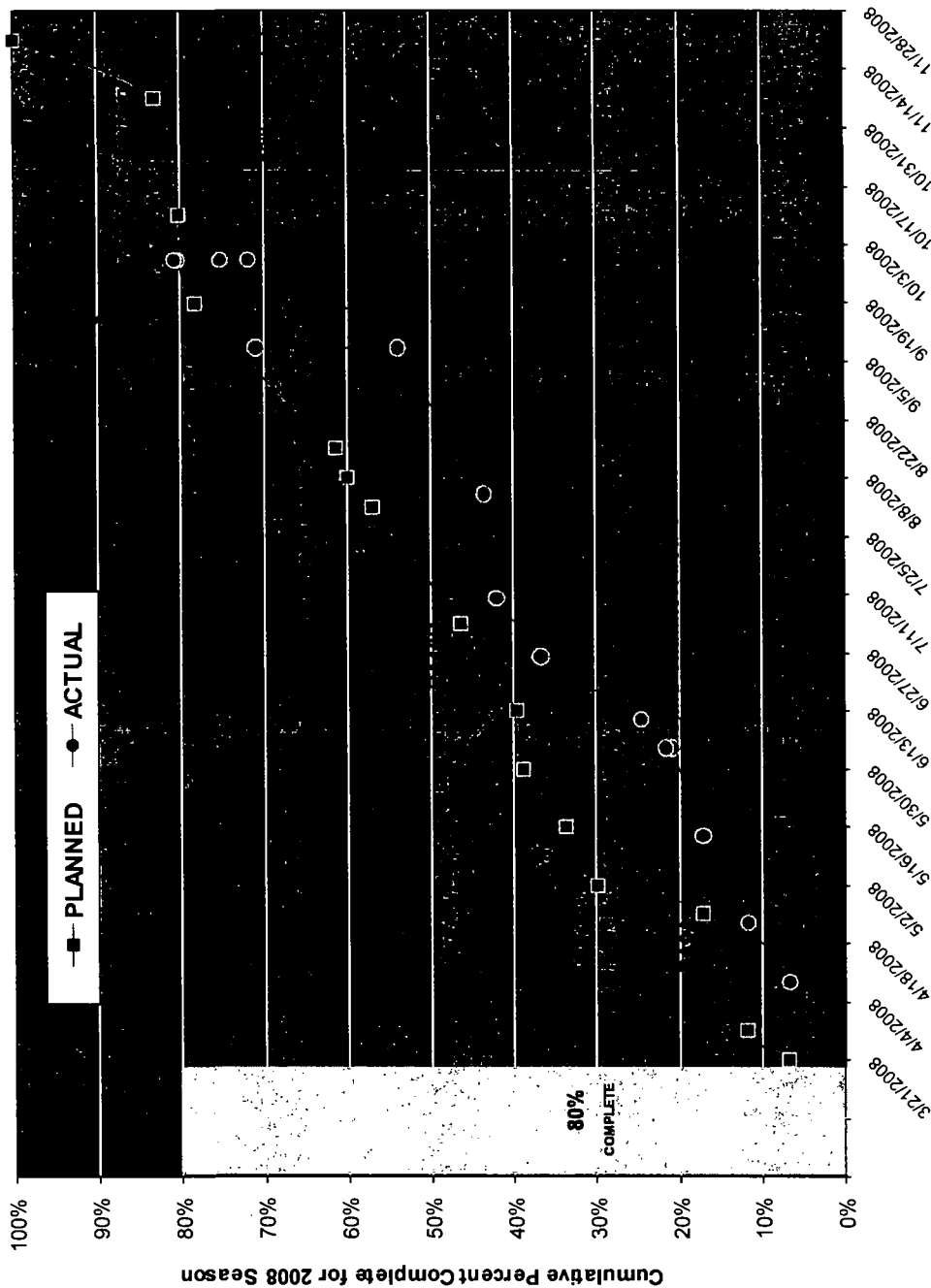
Removal Progress was suspended from September 13 through September 23, 2008 due to inclement weather.

Targeted volumes are neat and subject to change due to additional excavation done at request of USEPA.

Actual volumes removed below the targeted volumes potentially due to the conservative estimation methodology used to develop targeted figures and due to the actual topographic conditions encountered at the site, which could result in smaller volumes needing to be removed than originally estimated. The targeted volumes have been increased by 10% to account for additional material that could be removed as a result of over-excavation and additional removal in response to confirmation sampling. Soil/sediment removal activities are on schedule based on the ARCADIS BBL ES 4/30/07 Plainwell TCRA Construction Schedule.

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**Removal Progress**



**Notes:**

Removal Progress was suspended from September 13 through September 23, 2008 due to inclement weather.

For Areas where removal is less than 100% complete, the data point shown is an estimate based on area and volume considerations.

'Complete' is defined as removal of all targeted materials as detailed in the Plainwell TCRA Design Report.

***Health & Safety Update***

- 5 Loss Prevention Observations (LPOs) were completed during this period.  
A total of 220 LPOs have been completed for the project to date.

***Weather Summary***

- Heavy rainfall starting on the evening of Friday, September 12<sup>th</sup>, and lasting through the evening of Sunday, September 14<sup>th</sup>, suspended regularly scheduled work activities during the entire week of September 15<sup>th</sup>. No soil/sediment was excavated or transported to any of the landfills during this period. Site activities included maintenance work necessary to secure the site during flood stage water elevations. Normal work activities resumed on Wednesday, September 24<sup>th</sup>.

***Environmental Monitoring and Construction Quality Assurance Testing***

**Resuspension/Turbidity Monitoring:**

Testing Performed this Week? No ☐ Yes ☒  
Exceedances? N/A ☐ No ☒ Yes ☐ If yes, explain:

**Dewatering System Discharge Monitoring:**

Discharge Flow: 220,000 gallons (Staging Area 4N) and 98,000 gallons (Staging Area 5S)

Testing Performed this Week? No ☐ Yes ☒  
Exceedances? N/A ☐ No ☒ Yes ☐ If yes, explain:

**Excavation Verification Sampling:**

Testing Performed this Week? No ☒ Yes ☐  
Cleanup Standard Achieved? N/A ☒ Yes ☐ No ☐ If no, explain:

***Issues Encountered/Solutions Advanced***

- A combination of heavy rainfall and flood stage river elevations created unusual site conditions within the project area. ARCADIS, with the support of Terra Contracting and King Company, installed effective erosion protection systems and reduced increasing water elevations to allow additional water to pass over an existing spillway. Initial assessment of the project area has determined that these efforts minimized flooding impact on the project and that little to no damage occurred. ARCADIS will continue to assess the project area as water levels continue to lower.

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***Equipment on Site***

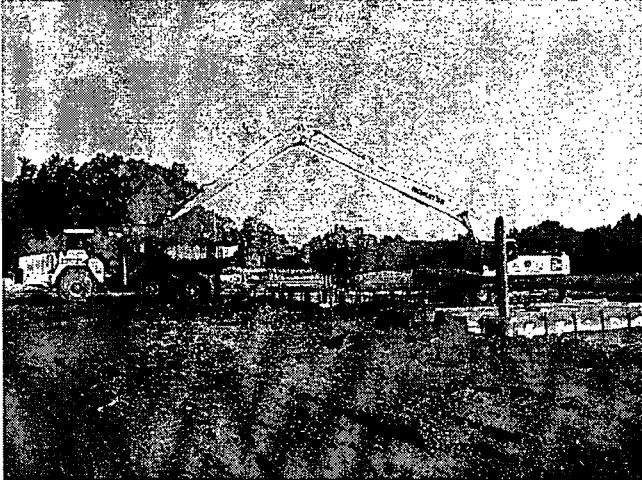
Equipment	9/18/08	9/19/08	9/20/08	9/21/08	9/22/08	9/23/08	9/24/08
Komatsu PC-300 Excavator	4	4	4	4	4	4	4
Komatsu PC-300 HD Long Reach	2	2	2	2	2	2	2
Komatsu PC-200 Excavator	1	1	1	1	1	1	1
John Deere JD-50 Mini-Excavator	1	1	1	1	1	1	1
John Deere JD-450 Dozer	1	1	1	1	1	1	1
John Deere JD-700 Dozer	-	-	-	-	-	-	-
Komatsu D37 Dozer	1	1	1	1	1	1	1
Komatsu D61 Dozer	1	1	1	1	1	1	1
Komatsu D65 Dozer	-	-	-	-	-	-	-
Volvo P-180 Loader	1	1	1	1	1	1	1
Komatsu 380 loader	1	1	1	1	1	1	1
CAT 328 Loader (King)	1	1	1	1	1	1	1
FAVCO 40-ton Crane	1	1	1	1	1	1	1
40' Self Propelled Work Barge	1	1	1	1	1	1	1
American 80-ton Crane (King)	1	1	1	1	1	-	-
2,000 Gallon Water Truck	1	1	1	1	1	1	1
Smooth Drum Roller	1	1	1	1	1	1	1
John Deere Skidsteer	1	1	1	1	1	1	1
Vermeer Chipper	-	-	-	-	-	-	-
Komatsu 400 Articulating Dump Truck	2	2	2	2	2	2	2

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***Personnel, Regulatory Staff, and Visitors on Site***

Individual/Affiliation	9/18/08	9/19/08	9/20/08	9/21/08	9/22/08	9/23/08	9/24/08
Terra Contracting Staff	15	15	10		15	15	15
Jim Saric/USEPA							X
Michael Berkoff/USEPA							
Steven Ells/USEPA							
Mike Ribordy/USEPA OSC							X
Karl Gustavson/US ARMY ERDC							
Paul Bucholtz/MDEQ							
John Bradley/MDEQ							
Judith Gapp/MDEQ							
Todd Goeks/NOAA							
John Lerg/MDNR							
Sharon Hanshue/MDNR							
Chris Frieberger/MDNR							
Weston Contractors							X
CDM Contractors							
Chase Fortenberry/KRSG							
Mark Brown/KRSG							
Paul Monteny/KRSG							
Eric Schmidt/KRSG							
Suda Arakere/KRSG							
Steve Garbaciak/ARCADIS	X					X	X
Mike Erickson/ARCADIS						X	
Scott Marcus/ARCADIS	X	X					
Eric Hritsuk/ARCADIS							
Matt Bowman/ARCADIS	X						
EJ Suardini/ARCADIS	X	X			X	X	X
Mike Kohagen/ARCADIS	X	X	X		X	X	X
Michelle Rumler/ARCADIS	X	X			X	X	X
Joe Willoughby/ARCADIS	X	X	X			X	
Ben Lawrence/ARCADIS		X	X		X	X	X
Erik Pietrzak/ARCADIS							
ARCADIS H&S Audit Team							
Nick Harmer/ARCADIS	X					X	X
<i>Other Subcontractors (Specify)</i>							
King Co.	3	3	3		3	3	3
JF New							

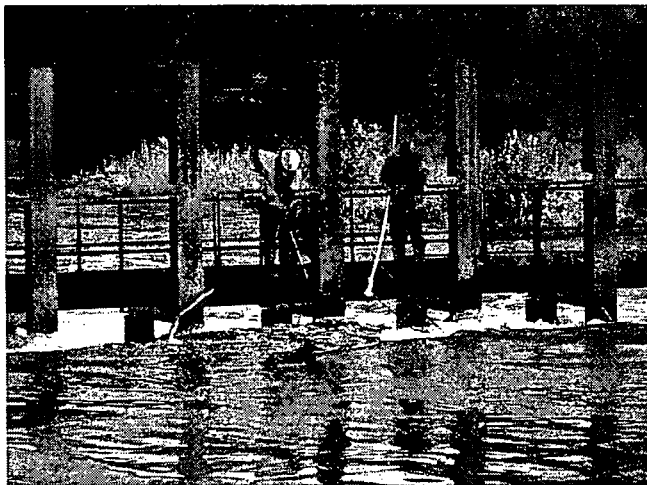
*Photos from September 11-September 24, 2008*



Removing soil and sediment from Mid-Channel A.



Installing an erosion control system on the bank of the earthen embankment between WCS and existing spillway.



Removing debris and operating the WCS.



Installing temporary steel sheeting to connect the Phase 2 Cofferdam to the existing spillway.



